From the INTERNATIONAL SEARCHING AUTHORITY  To  BRASNETT, Adrian H.  Mewburn Ellis, York House, 23 Kings  ORTHE DECLARATION  (PCT Rule 44.1)  Date of mailing (day/month/year)  (PCT Rule 44.1)  (PCT Rule 44.1)  Applicant's or agenit's file reference AHBC/DO47252  Insprainment application No. PCT/68 02/ 02668  Applicant  ASTEX TECHNOLOGY LIMITED  1. Xi The applicant is hereby notified that the International Search Report has been established and its transmitted herewith.  Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Pule 46):  When? The time international Search Report, however, for more detailes, see the notes on the accompanying sheet.  Where? Directly to the International Search Report will be established and that the declaration under Article 17: 1211 Geneva 20, Switzerland Facinitie No. (41-22) 740.14.35  For more detailed instructions, see the notes on the accompanying sheet.  2. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.  3. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.  3. The applicant is reported against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:  The protest topward the tests of both in protest and the decision thereon to the designated Offices.  Shertly the 18 nooths from the protry date, the International application will be published by the International Bureau to protest and the decision thereon to the designated Offices explication or of the protest and the decision thereon to the order of postoper published and that the decision of the protest and the decision thereon to the designated Offices eviden have not been decisional published by the International Bureau as provided in Pules 906s.1		)	MEETING IN THE COURSE TO SECURITY FOR METHOD WITH THE SECURITY		
BRASNETT, Adrian H.  Mewburn Ellis, York House, 23 Kings  OR THE DECLARATION  (PCT Rule 44.1)  Date of mailing (day/month/year) 27/01/2003  Applicant's or agent's file reference  AHBC/96047252  FOR FURTHER ACTION See paragraphs 1 and 4 belon international application No.  PCT/GB 02/02668  Applicant  ASTEX TECHNOLOGY LIMITED  1. X The applicant is hereby notified that the international Search Report has been established and is transmitted herewith.  Filing of amendments and statement under Article 19:  The applicant is enabled, if he so wishes, to amend the claims of the International Application (see Plute 46):  When? The time limit for filing such amendments is normally? months from the date of transmitted herewith.  Where? Directly to the International Bureau of WIPP.  44 chamin see Colombetes  1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35  For more detailed intered you notified that no International Search Report will be established and that the declaration under Article 17(2/(a)) to that effect is transmitted herewith.  3. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2/(a)) to that effect is transmitted herewith.  4. Further action(s): The applicant is reminded of the following:  Shortly after 18 months from the priority date, the international application will be notified as soon as a decision is made.  4. Further action(s): The applicant is reminded of the following:  Shortly after 18 months from the priority date, the international application will be notified as soon as a decision will be completed or the international bureau as provided in Public 800s. 1 and 500s.6, 2, respectively, before the completion of the endining of the priority date, the ap	_	From the INTERNATIONAL SEARCHING AUTHORITY	PCT		
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European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Wolfgang Hingel	before all designated Offices which have not been elected in the demand or in a later election within 19 months from				
European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Wolfgang Hingel		Name and mailing address of the International Searching Authority	Authorized officer		
		European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,			

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been his filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new; 🗻
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
   "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

# it must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's



# **INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification	of Transmittal of International Search Report
	ACTION (Form PCT/ISA	/220) as well as, where applicable, item 5 below.
AHBCP 6047252 International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
••	•	
PCT/GB 02/02668	30/05/2002	
Applicant		
.i		
ASTEX TECHNOLOGY LIMITED		
This International Search Report has bee according to Article 18. A copy is being tr	en prepared by this International Searching Ar cansmitted to the International Bureau.	uthority and is transmitted to the applicant
This International Search Report consists	s of a total of sheets.	
X It is also accompanied by	y a copy of each prior art document cited in the	nis report.
1 Davis addition named		
Basis of the report     With regard to the language the	international search was carried out on the t	basis of the international application in the
language in which it was filed, ur	nless otherwise indicated under this item.	
the international search	was carried out on the basis of a translation c	of the international application furnished to this
Authority (Rule 23.1(b)).	adder amine sold convence disclosed in the	e international application, the international search
was carried out on the basis of the	ne sequence listing :	s international appropriate in the second se
	ional application in written form.	
· -	ternational application in computer readable f	orm.
	to this Authority in written form.	
	to this Authority in computer readble form.	- does not go beyond the disclosure in the
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.		
the statement that the in furnished	formation recorded in computer readable for	m is identical to the written sequence listing has been
2. Certain claims were fo	und unsearchable (See Box I).	
3. Unity of invention is la	cking (see Box II).	
4. With regard to the <b>title</b> ,		
· —	submitted by the applicant.	
	ished by this Authority to read as follows:	EINS AND OF THEIR CRYSTALLIZING
METHODS OF PORTFICALL	ON OF CITOCHROMB 1430 TROI	<b></b>
5. With regard to the abstract,		
the text is approved as	submitted by the applicant.	
the text has been estab	lished, according to Rule 38.2(b), by this Auth he date of mailing of this international search	hority as it appears in Box III. The applicant may, report, submit comments to this Authority.
1	iblished with the abstract is Figure No.	- <del></del>
as suggested by the ap		X None of the figures.
· —	ailed to suggest a figure.	
	er characterizes the invention.	



Internal Application No	
PCT	02/02668

A. SSIF	C12N15/53 C12N9/02					
According to	According to International Patent Classification (IPC) or to both national classification and IPC					
	SEARCHED					
Minimum do IPC 7	nimum documentation searched (classification system followed by classification symbols)					
	ion searched other than minimum documentation to the extent that s					
Electronic da	ata base consulted during the international search (name of data bas	se and, where practical, search terms used)	)			
BIOSIS	, EPO-Internal, INSPEC, SEQUENCE SEA	ARCH				
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to daim No.			
х	WILLIAMS PAMELA A ET AL: "Mammal microsomal cytochrome P450 monoox	(ygenase:	14			
	Structural adaptations for membrane binding and functional diversity." MOLECULAR CELL., vol. 5, no. 1, January 2000 (2000-01), pages 121-131, XP002222921 ISSN: 1097-2765					
Y	cited in the application abstract; figure 2; table 1	-/	1-8			
X Furt	her documents are listed in the continuation of box C.	Patent family members are listed	l in annex.			
"A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or		T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled				
other "P" docum	means ent published prior to the international filing date but than the priority date claimed	ments, such combination being obvious in the art.  *&" document member of the same patent				
Date of the actual completion of the international search		Date of mailing of the international se	earch report			
14 January 2003 27/01/2003						
Name and	mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer				
	NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Espen, J				

# INTERNATIONAL SEARCH REPORT

intermed al Application No PC 3-8 02/02668

		101,330 02/02000	
C ntinu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Y	VON WACHENFELDT CLAES ET AL: "Microsomal P450 2C3 is expressed as a soluble dimer in Escherichia coli following modifications of its N-terminus." ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol. 339, no. 1, 1997, pages 107-114, XP002222918 ISSN: 0003-9861 cited in the application page 109	1-8	
Υ	COSME JOSE ET AL: "Engineering microsomal cytochrome P450 2C5 to be a soluble, monomeric enzyme. Mutations that alter aggregation, phospholipid dependence of catalysis, and membrane binding." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 275, no. 4, 28 January 2000 (2000-01-28), pages 2545-2553, XP002222919 ISSN: 0021-9258 cited in the application page 2546 -page 2547	1-8	
X	HASEMANN C A ET AL: "CRYSTAL STRUCTURE AND REFINEMENT OF CYTOCHROME P450TERP AT 2.3 A RESOLUTION" JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 236, no. 4, 1994, pages 1169-1185, XP001120740 ISSN: 0022-2836 cited in the application abstract	14	
A	LEWIS DAVID F V: "Homology modelling of human cytochromes P450 involved in xenobiotic metabolism and rationalization of substrate selectivity."  EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, vol. 51, no. 4-5, July 1999 (1999-07), pages 369-374, XP009003755 ISSN: 0940-2993		
A	IBEANU G C ET AL: "IDENTIFICATION OF RESIDUES 99, 220, AND 221 OF HUMAN CYTOCHROME P450 2C19 AS KEY DETERMINANTS OF OMEPRAZOLE HYDROXYLASE ACTIVITY" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 271, no. 21, 24 May 1996 (1996-05-24), pages 12496-12501, XP001017944 ISSN: 0021-9258		

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#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: in part: 1-11,13,14,18

Purification and crystallizing of cytochrome P450 2C9 without its structure

2. Claims: 15; in part: 1-14, 18

Purification and crystallizing of P450 2C19 and its structure

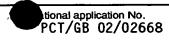
3. Claims: 16,19,20; in part: 1-8,10-14,18

Purification and crystallizing of cytochrome P450 2D6 without its structure; nucleic acid for expression of said cytochrome

4. Claims: 17; in part: 1-8,10,11,12,13,14,18

Purification and crystallizing of cytochrome P450 3A4 and its structure





Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)		
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:		
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:		
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows:		
see additional sheet		
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.		
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.		
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:		
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:		
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.		